DEPARTMENT OF WATER RESOURCES

WATER STATISTICS, INCLUDING WASTE WATER

PRESENTED BY SAINABOU JAGNE
AGENDA

- Water Resources in The Gambia
- Water withdrawal
- Renewable Water Resources
- Department of Water Resources
- Meteorological Division
- Hydrological division
- Rural Water Supply Division
- Water Quality Division
- Waste Water
WATER RESOURCES IN THE GAMBIA

AREA OF THE GAMBIA 11,295 km²

- SURFACE WATER
- GROUNDWATER
## WATER WITHDRAWAL

### Water withdrawal

- **Surface water source**
- **Groundwater source**

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total water withdrawal</td>
<td>$31.8 \times 10^6$ m³/yr</td>
</tr>
<tr>
<td>- Irrigation + livestock</td>
<td>$21.3 \times 10^6$ m³/yr</td>
</tr>
<tr>
<td>- Municipalities</td>
<td>$6.9 \times 10^6$ m³/yr</td>
</tr>
<tr>
<td>- Industry</td>
<td>$3.6 \times 10^6$ m³/yr</td>
</tr>
<tr>
<td>per habitant</td>
<td>$24$ m³/yr</td>
</tr>
<tr>
<td>Surface water and groundwater withdrawal</td>
<td>$31.8 \times 10^6$</td>
</tr>
</tbody>
</table>

Per inhabitant: $24$ m³/yr
### RENEWABLE WATER RESOURCES

Computation of long-term average annual renewable water resources in km³/year

<table>
<thead>
<tr>
<th>Internal renewable water resources</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface water produced internally</td>
<td>3.0 km³/yr</td>
</tr>
<tr>
<td>Groundwater produced internally</td>
<td>0.5 km³/yr</td>
</tr>
<tr>
<td>Overlap between SW and GW</td>
<td>0.5 km³/yr</td>
</tr>
<tr>
<td>Total internal renewable water resources</td>
<td>3.0 km³/yr</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>External renewable water resources</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface water</td>
<td>5.0 km³/yr</td>
</tr>
<tr>
<td>Groundwater</td>
<td>Non recorded</td>
</tr>
<tr>
<td>Total external renewable water resources</td>
<td>5.0 km³/yr</td>
</tr>
</tbody>
</table>
DEPARTMENT OF WATER RESOURCES

5 Divisions:
- Meteorological division
- Hydrological division
- Rural water supply division
- Water quality division
- Data and communication division
Meteorological division monitor the weather and climatic conditions of the region.

PARAMETERS:

- Precipitation
- Temperature
- Atmospheric pressure
- Relative Humidity
- Evaporation
- Climatological data for prediction and analysis
HYDROLOGICAL DIVISION

Hydrological division monitors both surface water and groundwater bodies.

- Surface water stations
- Groundwater stations
PARAMETERS

- Water Level
- Water Temperature
- Salinity
- Specific conductivity
- Total Dissolved Solids
- Supply voltage
WATER LEVEL

Mean Daily Water level 2014 – 2019

SURFACE WATER STATION – KUNTAUR
WATER LEVEL

Region: » All Stations «
Meas. values

Station: Pakaliba
Sensor: Depth 17.65

Maximum:
14.74
7/23/2015
12:00:00 AM

Minimum:
13.65
10/28/2016
12:00:00 PM

Values: 4864 [4863]

GROUNDWATER STATION – PAKALIBA
Rural Water Supply Division

RWSD responsible for the provision of safe drinking water to rural communities.

Responsibilities:
- Type of water sources
- Age of system
- Location of system
- Ability to cover
- Requirements for upgrade
Water Quality Division monitor the quality of water in the regions by collecting water samples and analyzing them in the lab.

There are 3 components in the analysis:

- Physicochemical
- Chemical
- Bacteriological or microbiological
WASTE WATER

- Treated municipal wastewater
- Not treated municipal wastewater
THANK YOU FOR YOUR KIND ATTENTION